

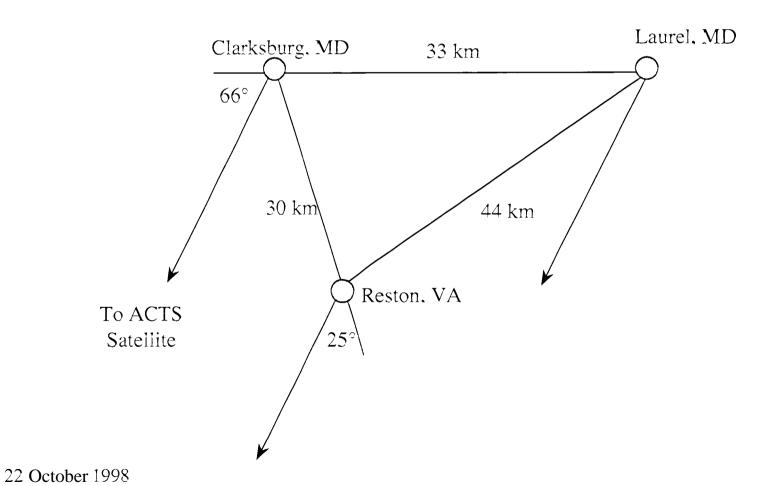
ACTS Propagation Measurements

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Introduction

- ACTS propagation measurements conducted at three sites in Washington DC area and a tropical location in Mexico.
- Main objectives of the measurements are:
 - · collect long-term propagation data
 - · investigate multiple site diversity
 - · characterize propagation conditions in tropical areas
 - · development of propagation models
 - investigation of fade mitigation techniques

Measurement Site Configuration: Washington DC Area





Program Status

- Data collection:

Clarksburg: 52 months completed

Reston: 55 months completed

Laurel: 33 months completed

- Data analysis:

Clarksburg: 52 months completed

Reston: 52 months completed

Attenuation Statistics

- Single site attenuation statistics for the four years from November 1993 through October 1997 have been generated.
- For the same 12 month period, distribution of attenuation for the two sites are very similar.
- Considerable year-to-year variability observed in the data.
- Model predictions fall within the annual variation.



